



ecology and environment, inc.

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MEMORANDUM

DATE:					
TO:	William Messenger, Chief Pre-Remedial Unit				
FROM:	Jerome D. Oskvarek, FIT Office Manager				
SUBJECT:	Screening Site Inspection Transmittal Memorandum				
	CERCLIS Site Name: BROOK PARK LANDFILL				
	City: BROOK PARK				
	State: 0H10				
	U.S. EPA ID No.: 040981957905				
•	SSID No.: NONE				
	TDD No.: F05-8708-022				
	PAN: FOHO 7305A				

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this memorandum, this memorandum and its attachments are not to be released. The draft/final (circle) Screening Site Inspection (SSI) report accompanies this transmittal memorandum and its attachments. Based on the information gathered during the SSI and other available information, the FIT has recalculated the preliminary and projected HRS 1 scores, and determined the HRS 2 factor value for the site. These scores and factor values are presented below.

HRS 1 PRELIMINARY AND PROJECTED SCORES

PRELIMINARY	HRS SCORE	BASED ON THE	SCREENING SI	ITE INSPECTION	(SSI)
(This score	is based or	n information	n from the so	creening site in	nspection.)
	S _N =		S _{FR} =	S _{DC} = C	<u>></u>

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (LSI) (This score is based on the expected acquisition of information from the listing site inspection.)

$$S_{H} = \bigcirc$$
 $S_{PE} = \bigcirc$ $S_{DC} = \bigcirc$

HRS 1 score worksheets are attached to this memorandum.

HRS 2 FACTOR VALUE

Factor	Factor Value	Observed Human Exposure		
Waste Characteristics	50 (100)	(X)		
Air Pathway	<u> </u>			
Groundwater Pathway Surface Water Pathway	100 (100)			
On-site Pathway	66 (100)			
TOTAL HRS 2 FACTOR VALUE	<u>169</u> (500)			

HRS 2 factor value worksheets are attached to this memorandum.

IMMEDIATE ACTION

In addition to the HRS related information, we have evaluated this site for the need for immediate removal action as a result of a substantial threat to either human health or the environment. (Select one)

The site <u>does</u> present a threat which requires immediate removal action.

The site <u>does not</u> present a threat which requires immediate removal action.

RECOMMENDATIONS

Based on the HRS related information and the evaluation of the immediate removal threat, the FIT concludes from its activities the following (select one):

<u>×</u>	1.	The HRS 1 scores are below 25.00; therefore, the site should be designated as a NFRAP facility.
·	2.	The HRS 1 scores are equal to or exceed 25.00; however, due to extenuating circumstances (i.e., ongoing clean-up) the site should not be designated for LSI activities.
	3.	The HRS 1 scores are equal to or exceed 25.00. As a result, we recommend that the site be designated as a potential LSI candidate. The FIT anticipates that the following activities would be required during the LSI in order to establish a sufficient data base to successfully list the facility on the NPL.
		 a. Installation of monitoring wells. b. Air sampling. c. Further sampling of surface water. d. Further waste characterization. e. More extensive sampling of residential wells and municipal wells. f. Collect additional soil samples. g. Perform geophysics. h. Conduct area survey. j. Other.
		i. Other:

COMMENTS

The FIT would like to make the following additional comments concerning the site.

1.		NONE					
				_			
2.							
		=					
3.			м				
			····	· · · · · · · · · · · · · · · · · · ·			
4.					·		
			<u></u>	· · · · · · · · · · · · · · · · · · ·		·	
5.						·	

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SCREENING SITE INSPECTION PRELIMINARY AND PROJECTED HAZARD RANKING SYSTEM REVISED SCORE WORKSHEETS

Site Name:	BROON PARK LA	トロアルレ (Cerclis Name)
		(a.k.a.)
Address:	6388 KOLTHOFF	RD.
City/County/State/Z	ip: Brook PARK	0410
Cerclis ID:	OHD 981957 905	SS ID: NONE
Prepared by:	C. FLORGZAM, E&E	Date: 5-31-88
Reviewed by:	,E&E	
TDD:	F05-870B-022	PAN: Foto 730 SA
	*	
	•	
SCREENING SITE I	NSPECTION (SSI) PRELIMINA	ARY HRS SCORE
S _M =	S _{FE} =O	S _{DC} =
LISTING SITE INSP	ECTION (LSI) PROJECTED H	IRS SCORE
S _M =	S _{FF} = 0	S _{DC} =

SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE

(This score is based on information from the SSI.)

·	s	S ²
Groundwater Route (Sgw-)	, 0	0
Surface Water Route (S _{S W} =)	0	0
Air Route (Sa =)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{yw}^2 + S_{sw}^2 + S_a^2 / 1.73} = S_M =$. 0

LISTING SITE INSPECTION (LSI) PROJECTED HRS SCORE

(This score is based on the expected acquisition of information from the LSI.)

ć	s	S ²
Groundwater Route (Sgw≈)	0	0
Surface Water Route (S _{SW} =)	0	. 0
Air Route (Sa =)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{yw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2 / 1.73} = S_M =$		D.

SURFACE WATER ROUTE

SCREENIN	IG SITE INSPECTION ((This score is based on in	•			
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 45	x 1			
If Observed Release :	scores 45 proceed to line 4 scores 0 proceed to line 2				
2 Route Characteristic				Facil %	
	0 0 0 0 3	x 1	ني	SURFACE WATER	USGS
SI	acility 0 1 1 2 3 ope 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3				
1-yr. 24 hr Rainf	_	x 1	2	2.2 in.	~P
Distance to Neare Surface Water	ost 0 1 23	x 2	ھ)	ADTACENT	٥٩ دح
Physical State	0 1) 2 3	x 1	į	SULID	51
	Total Route Characteristic	s Score	12		
3 Containment	0 1 2 3	_ x1	Ö	CLAY CAPPED	51
4 Waste Characteristic	s				
Persistence 0 Toxicity 1 3	0 0 0				
Toxicity 1 3 2 6 3 9	0 0 0 6 9 12 9 12 15 12 15 18	x 1	[8	1 NOR6 AN (CS	51
Haz. Waste Quant		x1	\	PRESENT - UNILLENA	
	Total Waste Characteristic	≃s Score	19		
5 Targets	^		·		
Surface Water Use	•	x 3	6	RECREATION	७८८
Dist. to Sensitive Environment	0 1 2 3 Distance to Water	x 2	Ź	~100 ACRE WETLAND	U565
	Intake Downstream 0 0 0 0 0	`			
Populati Served	on 0 8 12 16 20 1 0 12 18 24 30	_			
361460	0 16 24 32 35 0 20 30 35 40	x 1	0	73	USES
	Total Targets S∞re		8		
6 If line 1 is 45, multiply If line 1 is 0, multiply	ky [] x 4 x 5 ' 2 x 8 x 4 x 5		0		
Divide line 6 by 64,	350 and multiply by 100	S _{sw} =	0,		

SURFACE WATER ROUTE

LISTING SITE INSPECTION (LSI) PROJECTED HRS SCORE (This score is based on the expected acquisition of information from the LSI.)					
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #
1 Observed Release	0 45	x 1			
	scores 45 proceed to line 4 scores 0 proceed to line 2				
2 Route Characteristic	s Intervening Terrain			Facil%	
•	0 0 0 0 3 acility 0 1 1 2 3	x 1	3_	Interv ADJACENT	U365
SI	acility 0 1 1 2 3 ope 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	,			
1-yr. 24 hr Raint	· -	′ x1	9	<u>2.2</u> in.	NP
Distance to Neare Surface Water		x 2	0	ADTACENT	USGG
Physical State	0 1 2 3	x 1	J	SOLUP	51
	Total Route Characteristic	cs Score	2		
3 Containment	0 1 2 3	x1	0	CLRY CAPPED	51
4 Waste Characteristic	s		-		
Persistence 0	1 2 3				
Toxicity 1 3 2 6 3 9	0 0 0 6 9 12 9 12 15 12 15 18	x 1	18	THOR BANCS	51
Haz. Waste Quant		x 1	\	PRESENT - QUANTITY UFFROND	
	Total Waste Characteristi	cs Score	19		
5 Targets	- · · · · · · · · · · · · · · · · · · ·				
Surface Water Use	0 1 2 3	x 3	6	RECREATION	VĖGS
Dist. to Sensitive Environment	0 1 2 3 Distance to Water	x 2	2	~ 100 ACRE WITLAND	۳۶۵۶
	Intake Downstream 0 0 0 0	`			
Populati Serve	0 4 6 8 10 on 0 8 12 16 20 1 0 12 18 24 30	_			
361464	0 16 24 32 35 0 20 30 35 40	x 1	C	73	USGG
	Total Targets S∞re		8		
6 If line 1 is 45, multiple If line 1 is 0, multiple		·	0		
Divide line 6 by 64,	350 and multiply by 100	S _{s w} =	O		

GROUNDWATER ROUTE

SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE					
	(This score is based on		on from the	he SSI.)	
Rasating Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. ≠
1 Obsoserved Release	(o) 45	, x1	0		
# CObserved Release s # CObserved Release s	cores 45 proceed to line 4 cores 0 proceed to line 2				
2 Floroute Characteristics				Aquifer Description:	
·			;		
Depth to Aquifer of concern	0 1 2 3	x2	6	<u></u>	
Net Precipitation	0 17 2 3	x1	(Precip 5 NET Evap.	
Permeability of the Unsaturated Zone	e 0 1)2 3	. x1	L	/U ⁻⁶ cm/sec	
Physical State	0 1 2 3	x 1	1	SULIDWASTR	
	Total Route Charactoristic	≈ Score	9		
[3] Coontainment	0 1 2(3)	x 1	3	No LINER	
☑ Welaste Characteristics	,				
Persistence 0	1 2 3			——————————————————————————————————————	
Toxicity 0 0 0 2 6 3 9	0 0 0 6 9 12 9 12 15 12 15 (18)	x 1	18	LAB DATA	
3 9 Haz. Waste Quanti		x 1	1	UNUNOND-SONE-	
	Total Waste Charactoristic	⇔ Score	19		
☑ Taargets	<u></u>	1	<u></u>		
Groundwater Use Distance to	(1) 1 2 3	x3	0	NONE	
Nearest Well	0 1 2 3 4	•			
Population 2	0 4 6 8 10 0 8 12 16 20 0 12 18 24 30				
Served 4 5	0 16 24 32 35 0 20 30 35 40	x 1	0	NONE	
	Total Targets Score		0		
If if line 1 is 45, multiply			0		
Divide line 6 by	57,330 and multiply by 100		Sgw=	0	

GROUNDWATER ROUTE

	LISTING SITE INSPECTION (LSI) PROJECTED HRS SCOBRE (This score is based on the expected acquisition of information from the LLSL)					
	Assigned Value	Multi-		<u> </u>	Τ	
Rating Factor	(Circle One)	plier	S∞re	Descratiption	Ref. #	
1 Observed Release	0 45	x1	0			
If Observed Release If Observed Release	scores 45 proceed to line 4 scores 0 proceed to line 2					
2 Route Characteristic				Aquiler Descriptotion:		
_						
Depth to Aquifer of concern	0 1 2 3	x2	6	2- ft.		
Net Precipitation	0①2 3	x 1	į	Precip. 5" PET Evap.		
Permeability of the Unsaturated Zoo	he 0①23	x1	İ	10 ⁻⁶ cm/sac		
Physical State	0(1)2 3	x1	t	BULID WASTE]	
<u> </u>	Total Route Charactoristi	cs Score	9			
3 Confainment	0 1 2 3	x1	3	NO LINER		
4 Waste Characteristic	* .					
Persistence 0	1 2 3			_ 		
Toxicity 1 3 2 6 3 9	0 0 0 6 9 12 9 12 15 12 15 18	x1	1 (2.	1.0		
3 9	12 15 (18)	^'	18	LAB DATA		
Haz. Waste Quan	tity 0(1)2345678	x1		UNUNOUN -SOME		
	Total Waste Charactorist	ics Score	19			
5 Targets						
Groundwater Use	0)1 2 3	хз	0	NONE		
Distance to Nearest Well		•				
Population	2 l 0 8 12 16 20					
Served	0 16 24 32 35	x 1	· · ·			
	0 20 30 35 40		0	NONE WONE	,,,,,,,,,,,	
	Total Targets Score		0			
6 If line 1 is 45, multip	ply 1 x 4 x 5 by 2 x 3 x 4 x 5		0			
7 Divide line 6 by	57,330 and multiply by 100)	S _{gw} =	0		

AIRR ROUTE

SCREEN	SCREENING SITE INSPECTICON (SSI) PRELIMINARY HRS SCORE (This score is based 2 on information from the SSI.)								
Fatining Factor	Assigned Value (Circle One)	Multi- plier	Score	Description	Ref. #				
1 Ocsserved Release	0 45	x1							
fine 1 is 0, the Sa fine 1 is 45, then									
2 Wassele Characteristic	×								
RReactivity & Incompatability	0 1 2 3	x 1							
<u>Ta</u> oxicity	. 0. 1 2 .3	хЗ		<u></u>					
Haraz. Waste Quant	ity 0 1 2 3 4 5 6 7 88	x 1							
·	Total Waste Characterisistic	cs Score							
3 Targgets Perpulation within -4-mile Radius	Dist to Population 0 0 0 0 9 12 15 18 12 15 18 21 Pop. 15 18 21 24								
Dististance to Sensit	18 21 24 27 21 24 27 30	x 1 x 2	·						
Lazand Use	0 1 2 3	x 1			1.11				
	Total Targets Score								
4 Muttiniply 1 x 2 x	3								
S Dividide line 4 by 35	5,100 and multiply by 100		S _a =	0					

THIS SITE WAS ADEQUATELY COURTED WITH A
CLAY CAP (APPROXIMATELY 3 feet deep) IN
THE RALL OF 1987, NO AIR MONITORING WAS
PERFORMED.

AIR ROUJTE

LISTIN (This s∞	LISTING SITE INSPECTION (LS: PROJECTED HRS SCORE (This score is based on the expected accuration of information from the LSI.)									
Rating Factor	Assigned Value (Circle One)	Muti	S∞re	Description	Ref. #					
1 Observed Release	0 45	:: x1								
If line 1 is 0, the Sa If line 1 is 45, then	=0. Enter on line 5 proceed to line 2									
2 Waste Characteristic	s									
Reactivity & Incompatability	0 1 2 3	: x1								
Toxicity.	0 1 2 3	: x3								
Haz. Waste Quanti	ity 0 1 2 3 4 5 6 7 8	: x 1								
	Total Waste Charactoristic	cs Særere								
3 Targets Population within 4-mile Radius	Dist to Population 0 0 0 0 9 12 15 18 12 15 18 21 Pop. 15 18 21 24 18 21 24 27 21 24 27 30	: x1			1					
Distance to Sensiti Environment		± <u>*</u> 2								
Land Use	0 1 2 3	z x 1								
	Total Targets Score		-							
4 Multiply 1 x 2 x	3									
Divide line 4 by 35,100 and multiply by 100 $S_a = \bigcirc$										

THIS SITE WAS ADEQUATELY COUERED WITH A CHY CAP (APPROXIMATELY 3 feet deep) IN THE FALL OF 1987. MO AIR MONITORING

FIRE AND EXPLOSION

SCREENIN									INARY HRS SCORE
						d on			the SSI.)
Rating Factor	As:	signe Sircle	On	alue e)			Multi- plier	Score	Description Ref. #
1 Containment	0		3	l			x1		
2 Waste Characteristics									
Direct Evidence	0		3				x 1		
I gnitability	0 1	2	3				x 1		
Reactivity	0 1	2	3				x 1		
Incompatability	0 1	2	3				x 1		
Haz. Waste Quantity	0 1	2 3	4	5 6	7	8	x 1		
· .	Total \	Vast	e Cl	hara	ctor	istic	s Score		
3 Targets									
Dist. to Nearest Pop.	0	1	2	3	4	5	x 1		
Dist. to Nearest Bldg.	. 0	1	2	3			x 1		
Dist. to Sensitive En	v. 0	1	2	3			x 1		
Land Use	0	1	2	3			x 1		
Pop. Within 2 miles	0	1	2	3	4	5	_ x1		
Bldgs. Within 2 miles	0	1	2	3	4	5	x 1		
	То	tal T	arge	ets :	Score	10			
Multiply 1 x 2 x 3				-					
Divide line 4 by 1,440 and multiply by 100 $S_{RE} = \bigcirc$									

A BROOM PARK FIRE OFFICIAL HAS ADVISED THAT
THE SITE IS NOT A FIRE/EXPLOSION HAZARD.
NO READINGS ABOVE BACKBROUND WERE OBTAINED
ON AN EXPLOSIMETER DURING A SITE INSPECTION.

FIRE AND EXPLOSION

									ED HRS SCORE	
Rating Factor	As	signe Sircle	od V	alue		1	Multi- plier	Score	1	ef. #
1 Containment	0		3				x 1			
2 Waste Characteristic	≎s		_							
Direct Evidence	0		3				x 1			
Ignitability	0 1	2	3				x 1			
Reactivity	0 1	2	3				x 1			
Incompatability	0 1	2	3				x 1			
Flaz. Waste Quan	lity 0 1	2 3	4	5 6	7	8	x 1			
	Total \	Nast	e Cł	nara	ctori:	stics	Score			
3 Targets						•				
Dist. to Nearest Po	op. 0	1	2	3	4	5	x 1			
Dist. to Nearest B	ldg. o	1	2	3			x 1			
Dist. to Sensitive	Env. o	1	2	3			x 1			
Land Use	0	1	2	3			x 1			
Pop. Within 2 mile:	s 0	1	2	3	4	5	x 1			
Bldgs. Within 2 mi	les 0	1	2	3	4	5	x 1		1	
	To	tal T	arge	ets \$	Score	9				
4 Multiply 11 x 2 x	3									
Divide line 4 by 1	,440 and	mult	iply	by 1	100		S _F	e= ()		

A BROOK PARK FIRE OFFICIAL HAS ADVISED THAT

THE SITE IS NOT A FIRE/EXPLUSION HAZARD.

NO READINGS ABOUT BACKGROUND WERE OBTAINED

ON AN EXPLOSIMETER DURING A SITE INSPECTION

DIRECT CONTACT

SCREE	SCREENING SITE INSPECTION (SSI) PRELIMINARY HRS SCORE (This score is based on information from the SSI.)									
Rating Factor	Assigned Valo (Circle One)		Multi- plier	Score	Description	Ref. #				
1 Observed Incident	0 45		x1	ට	HONE RESOURCE					
If line 1 is 45, proce	eed to line 4 ed to line 2									
2 Accessibility	0 1 2 3		x1	3	INADE QUATE FENCE					
3 Containment	<u>(0)</u> 15		x1	0	ADEQUATE CAP					
4 Waste Characteristic	cs ·									
Toxicity	0 1 2 3	· .	x 5	15	LAB DAM					
5 Targets	<u> </u>									
Pop. Within 1 mile	0 1, 2 3	4 (5)	x 4	J.O	~14,100					
Dist. to Crit. Habit	at (0) 1 2 3		x 4	0	HOHE					
	Total Targets	Score		20.						
6 If line 1 is 45, multip		5		0						
Divide line d by 2										

DIRECT CONTACCT

LIST	LISTING SITE INSPECTION (LSI) PROJECTED HRS SCORE										
(This so	core is based on the expec		oa o≓⊃i info	rmation from the LSI.)							
Rating Factor	Assigned Value (Circle One)	Multi- plier	Socore	Description	Ret ##						
1 Observed Incident	0 45	x1	0	MONE BESOUTED OR							
If line 1 is 45, proce	seed to line 4 ed to line 2	·									
2 Accessibility	0 1 2 ③	x 1	3	INADEQUATE FRACIAL							
3 Containment	0 15	x 1	0	ADEQUATE CAP							
4 Waste Characteristi	ics	-									
Toxicity	0 1 2 ③	x5	15	LAB DATA							
5 Targets			·								
Pop. Within 1 mile	0 1 2 3 4 (5)	x 4	20	14,100							
Dist. to Crit. Habi	itat (0) 1 2 3	x4	0	NONE							
	Total Targets Score	•	20		()						
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5											
Divide line 6 by 2											

HRS 2- FACTOR VALUE

<u>Factor</u>	Factor Value	Observed Human Exposure (X)
Waste Characteristics	50(100)	
Air Pathway	<u>28</u> (100)	
Groundwater Pathway	(100)	
Surface Water Pathway	15 (100)	
On-site Pathway	66 (100)	
TOTAL HRS 2 FACTOR VALUE	<u> 69</u> (500)	

WASTE CHARACTERISTICS

					Factor
			Yes	Reference	Value .
		•	(x)		
L _	(a)	Are CONTAINERS open, unsealed, or			
		non-intact?			(5)
	(b)	Is there evidence of contaminant	_		
	,	migration away from the containers?			(5)
	(~)	Is the source(s) unlined or does it			
	(0)	have unsound diking?		·	(5)
		nave unsound dixing.			
Ċ	1-1	name the tayporty have average	<i>.</i>		
٠.	(a)	Does the LANDFILL have exposed			
		waste, or is the landfill uncovered,	,		
		or is the landfill covered with			•
		contaminated soil, non-intact cover			
		or cover less than 1 inch?			(5)
	(b)	Is there evidence of contaminant		121	: ئىسىر
		migration away from the source?		_551_	(5)
	(c)	Is there an absence of a liner, a			• • •
		run-on or runoff management system		٠.	
		or leachate collection and removal		•	-
		system?	<u> </u>	551	(5)
		•			
3.	(a)	Is the SURFACE IMPOUNDMENT wet			
		and non-enclosed?			(5)
	(b)	Is there evidence of contaminant			
		migration away from the source?			. (5)
	(~)	Is there no liner or diking?			(5)
	(0)	15 there no liner of diving.			
4.	(2)	Is the PILE uncovered, or is the		,	
••	(4)	pile covered with contaminated soil			
		= ,	•		•
		non-intact cover or cover less than			
		1 inch?		 '	(5)
	(P)	Is there an absence of a function-			
		ing run-on or runoff management			
		system or leachate collection			
		system?			(5)
	(c)	Is there an absence of a liner?		<u>.</u>	(5)
5.	Onl	y answer <u>highest</u> factor value			
	for	the following questions:			
		Is constituent data available			_
		for waste?	*	55 l	/ (10)
	(b)	Is waste quantity as deposited		<u></u>	
		information available?			(8)
	(c)	Is disposal volume known?			(4)
		Is disposal area known?		· 	
	.(u)	ra drahoser eree known:			(2)

...Continued

WASTE CHARACTERISTICS (Continued)

6. Complete the table for all sources at the site. Calculate Waste Quantity score and record summation to a maximum value of 30.

Source	Surface Area (ft2)	+	Divisor	=	Waste Quantity Score
Pile		+	85	=	
Drums/Non-drum Container		+	233	=	
Surface Impoundment		+	375	=	
Land Treatment		+	27,000	=	
Landfill	3,049,200	÷	85,666	=	35.6
Contaminated Soil		+	1,125,000	=	

Total 35.6 30 (30max)

Total Waste Characteristics 50 (100)

AIR PATHWAY

 Only assign factor value for (a) or (b), choosing the higher value: 	Yes (x)	Reference	Factor Value
 (a) Is there a residence or regularly occupied building between 0 to 1/8 mile from a potential source(s)? (b) Is there a residence or regularly occupied building between 1/8 to 2 miles from a potential source(s)? 	<u>×</u>	551	25 (25) (5)
 Complete (a) and (b) and assign the higher factor value: (a) If documented contamination of air, answer yes and assign factor value of 75. (b) Calculate potential population and assign factor value as given below: 			(75)

SITE	15 NOW	. A	DEQUATELY		ou ere
Distance			Distance		
(mile)	Population	×	Weighting Factor	=	Subtotal
Onsite	D	x	1.682	=	0
0-1/4	2 25	ĸ	0.323	=	73
1/4-1/2	279	x	0.056	=	16
1/2-1	2186	x	0.017	=	37
1-2	7508	x	0.005	=	38
2-3	15276	x	0.003	=	46
3-4	38711	x	0.002	=	77

Total
$$\frac{287}{100} \times \frac{1}{100} = \frac{3}{(75 \text{max})}$$

Total Air Pathway Value

<u>28</u> (100)

GROUNDWATER PATHWAY

		•			Yes	Referenc	Factor e <u>Value</u>
1.		epth to the ac	uife	er of concern	<u>X</u>	n P	5 (5)
2.	is the waste composition of the within the conduction of the condu	e and the aquiosed predomina stone, limesto in 2 miles of here evidence activity layer	fer ntly one of the of a	ial between the of concern of sands, gravels or dolomite?	_×	. <u>551</u>	<u> </u>
3.	Only assi choosing (a) is the	ign factor val the <u>higher</u> va mere a drinkir	ue lue: g wa	for (a) or (b), ater well(s) in the a more shallow uni			(20)
4.	aquii 1/2 1	fer of concerr to 2 miles fro	or m th	ater well(s) in the a more shallow uni ne source(s)? a karst unit?			(5)
5.	Is the ac	quifer of conc quifer?	ern	a sole	414	τ <u> </u>	(5)
6.	factor va (a) If do wells assig (b) Calcu assig	alue: coumented cont s with TCL/TAI gn a factor va- ulate potentia gn factor valu	amin con lue l pe		and		(50)
1	Distance		<u>. · · </u>	Distance	1	<u> </u>	
1	(mile)	Population	×	Weighting Factor	=	Subtotal	
	0-1/4		x	0.25	=	, y .c.	
	1/4-1/2		x	0.16	=		
	1/2-1		x	0.08	=		
	1-2		x	0.05	=		•
	23		х	0.03	= ·		
	3-4		x	0.02	=		i e e e
_	•				Total	·	1 = 50 max)

TOTAL GROUNDWATER PATHWAY VALUE ______ (100

CHERA	CF.	WATER	PATHWAY

			2	SURFACE WATER PATHWA	. x			Factor
				•	-	res Refe	erence	<u>Value</u>
1.	Does site	lie within a	100-	year or less	-	<u>X us</u>	<u>6570</u> 90	_5_(5)
2.		ontamination drinking wate		ributable to the				(20)
3.	Is this a	sole-source s	urfa	ace water supply?	_	·	.	(10)
4.	of the sit	e, or is a fi	shei	contaminated as a recy potentially impact of the site?		: 		(5)
5.	the site,	or is a recre	atio	ninated as a result on area potentially s a result of the si		X Use	ं ५०७८	<u>5</u> (5)
6.	result of	the site, or ly impacted wi	is a	contaminated as a a sensitive environ n 15 miles as a resu		X use	5-1000	<u>5</u> (5)
7.	factor val (a) If the surfact within answer (b) Calcul	lue: ere is documen ce water intak n 15 miles as r yes and assi	ited e wi a re gn a	contamination of a ith TCL/TAL compound esult of the site, a factor value of 50 pulation and assign pelow:	o		·	(50)
-4-	No In	ITALLES W	177	tin three a	م دل ا	es of s	ITE	. **
	Intake	Population	x	* Dilution Weighting Factor	=	Subtotal		
-	#1		×		=		·	
-	‡ 2		x		=			
-	#3		x		=			
-			x		=			
-		.,	x		=			
	Use table	on following		9.		·		450

SURFACE WATER PATHWAY.

TABLE DILUTION WEIGHTING FACTORS

Average Annual	
Flow in Cubic	Assigned
Feet per Second (CFS)	Value
Less than 5 cfs	2.5
5 to 50 cfs	0.25
Greater than 50 to 500 cfs	0.025
Greater than 500 to 10,000 cfs	0.0013
Greater than 10,000 cfs	0.0003
Not applicable	0.0003
Greater than 50 cfs	0.125
Add and average CFS of	Assign value
tributaries flowing into	to calculated
lake/reservoir.	CFS figure using above factors.
	Less than 5 cfs 5 to 50 cfs Greater than 50 to 500 cfs Greater than 500 to 10,000 cfs Greater than 10,000 cfs Not applicable Greater than 50 cfs Add and average CFS of tributaries flowing into

ON-SITE PATHWAY

				Factor
		Yes	Reference	Value
		(x)		•
1`.	Is the site located in an area where			
	people live or go to school within 1			
	mile of the source(s)?	X	USGS	10(10)
	*If answer NO to Question 1, do not			
	proceed with the remaining questions.	•		
2.	Is there known contamination from the			,
	site on residential or school			
	property?			(15)
3.	Is site public use land or			
	widely used land without barriers?	-		(10)
4.	Complete (a), (b) and (c), and assign the			
	highest factor value:			
	Which of the following are adjacent to site/source	(s)		
	or contaminated from the site?			
	(a) Schools, day-care			(15)
	(b) Parks, playgrounds, residences	$\overline{\lambda}$	1050	10(10)
	(c) National park, federal endangered			
	species, other public-use lands.			(5)

5. Caiculate population within 1 mile of the site, and assign factor value as given below:

Distance (mile)	Population	x	Distance Weighting Factor	=	Subtotal
0-1/4	225	x_	0.05	_	11.25
1/4-1/2	279	x	0.025	=	698
1/2-1	2186	×	0.0125	=	27,33

Total 46 46 (50max)

TOTAL ON-SITE PATEWAY VALUE __________(100)